



# Product Evaluation

DR716 | 0415

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** DR-716

**Effective Date:** April 1, 2015

**Re-evaluation Date:** January 2018

**Product Name:** Design Pro / Smooth Pro Fiberglass, 8'0" Opaque, Inswing and Outswing Hinged Double Doors (Impact Resistant) with or without Impact Resistant Sidelites

**Manufacturer:** JELD-WEN Windows & Doors  
3737 Lakeport Blvd.  
Klamath Falls, OR 97601  
(800) 535-3936

**Distributed By:** JELD-WEN  
Bison (A Stock Building Supply Company)

## General Description:

System	Description	Label Rating	Design Pressure Rating
1	8'0" Fiberglass Doors, Inswing, OX/XO/OXO/OXX/XXO/OXXO	MST: 12'-8" x 8'-2" Missile Level D	+45 / -45 psf
2	8'0" Fiberglass Doors, Outswing, OX/XO/OXO/OXX/XXO/OXXO	MST: 12'-8" x 8'-2" Missile Level D	+45 / -45 psf
3	8'0" Fiberglass Doors, Inswing, O/X/XX	MST: 6'-2" x 8'-2" Missile Level D	+50 / -50 psf
4	8'0" Fiberglass Doors, Outswing, O/X/XX	MST: 6'-2" x 8'-2" Missile Level D	+50 / -50 psf

## Overall Dimensions:

System	Overall Size
1	148-3/4" x 97-15/16"
2	148-3/4" x 97-3/8"
3	74-3/4" x 97-15/16"
4	74-3/4" x 97-3/8"

**Door Dimensions:**

System	Panel Size	Maximum Daylight Opening Size
1	35-3/4" x 95-1/4"	N/A
2	35-3/4" x 95-1/4"	N/A
3	35-3/4" x 95-1/4"	N/A
4	35-3/4" x 95-1/4"	N/A

**Sidelite Dimensions:**

System	Panel Size	Maximum Daylight Opening Size
1	35-3/4" x 95-1/4"	20-1/2" x 78-5/8"
2	35-3/4" x 95-1/4"	20-1/2" x 78-5/8"
3	35-3/4" x 95-1/4"	20-1/2" x 78-5/8"
4	35-3/4" x 95-1/4"	20-1/2" x 78-5/8"

**Hardware:**

System	Component	Quantity	Attachment Method
1, 2, 3, 4	4" Butt Hinges	4 per door panel	Secure to the door panel with four (4), No. 9 x 3/4" screws. Secure to the door frame jamb with three (3), No. 9 x 3/4" screws and one (1), No. 10 x 2" screw.
	Lock Strike Plate	1 required	Secured with two (2), No. 8 x 2" screws
	Deadbolt Strike Plate	1 required	Secured with two (2), No. 8 x 2" screws
	Kwikset Series 400 Lockset	1 Required	Secured with two (2), No. 10 x 2" screws
	Kwikset Series 780 Deadbolt	1 Required	Secured with two (2), No. 10 x 2" screws
	Shoot bolt strike plate at head	1 Required	Secured with two (2), No. 8 x 3" screws
	Shoot bolt strike plate at sill (inswing only)	1 Required	Secured with two (2), No. 12 x 3" screws
	Shoot bolt strike plate at sill (outswing only)	1 Required	Secured with two (2), No. 8 x 3" screws

**Threshold:**

System	Description
1, 3	Endura ZAIL 4565F; 4-9/16" x 1-3/8"
2, 4	Outswing sill; AFCO J-2297; 5-5/8" x 1-7/16"

**Product Identification – JELD-WEN (Certification Agency Label on Door):**

System		
1, 2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	JELD-WEN (Wedowee, AL or Grand Prairie, TX)
	Product Name	Design Pro / Smooth Pro Impact Rated Opaque Inswing or Outswing Fiberglass Door w/ or w/o Sidelites
	Test Standards	ASTM E330-02 ASTM E 1886-05; ASTM E 1996-06; Missile Level D Qualified Configurations: OX/OXO/OX/OXXO
3, 4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	JELD-WEN (Wedowee, AL or Grand Prairie, TX)
	Product Name	Design Pro / Smooth Pro Impact Rated Opaque Inswing or Outswing Fiberglass Door w/ or w/o Sidelites
	Test Standards	ASTM E330-02 ASTM E 1886-05; ASTM E 1996-06; Missile Level D Qualified Configurations: O/X/XX

**Product Identification – Bison (Certification Agency Label on Door):**

System		
1, 2	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Bison (A Stock Building Supply Company)
	Product Name	Design Pro / Smooth Pro Impact Rated Opaque Inswing or Outswing Fiberglass Door w/ or w/o Sidelites
	Test Standards	ASTM E330-02 ASTM E 1886-05; ASTM E 1996-06; Missile Level D Qualified Configurations: OX/OXO/OX/OXXO

**Product Identification – Bison (Certification Agency Label on Door) - Continued:**

System		
3, 4	Certification Agency	NAMI
	Manufacturer's Name or Code Name	Bison (A Stock Building Supply Company)
	Product Name	Design Pro / Smooth Pro Impact Rated Opaque Inswing or Outswing Fiberglass Door w/ or w/o Sidelites
	Test Standards	ASTM E330-02 ASTM E 1886-05; ASTM E 1996-06; Missile Level D Qualified Configurations: O/X/XX

**Impact Resistance:**

System	Impact Resistant	Requirement
1, 2, 3, 4	Yes	<u>Doors (Seaward):</u> Provide an impact protective system when installing the product in the Seaward zone. <u>Doors (Inland I zone only) and Sidelites:</u> These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies

**Installation:**

System		
1, 2, 3, 4	Type of Installation	Install the doors in accordance with Drawing No. AO10523, titled "Smooth Pro/Design Pro Impact HVHZ 12-0 x 8-0 Opaque With Full Lite 3-0 Sidelites," sheets 1 through 12, dated December 3, 2013, signed and sealed by Alexis Spyrou, PE on January 17, 2014.
	Wall Framing	
	Fasteners	
	Fastener Embedment	
	Fastener Location/Spacing	

**Note:** Keep the manufacturer's installation instructions at the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.